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# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 10207630  
 PUBLICATION DATE : 07-08-98

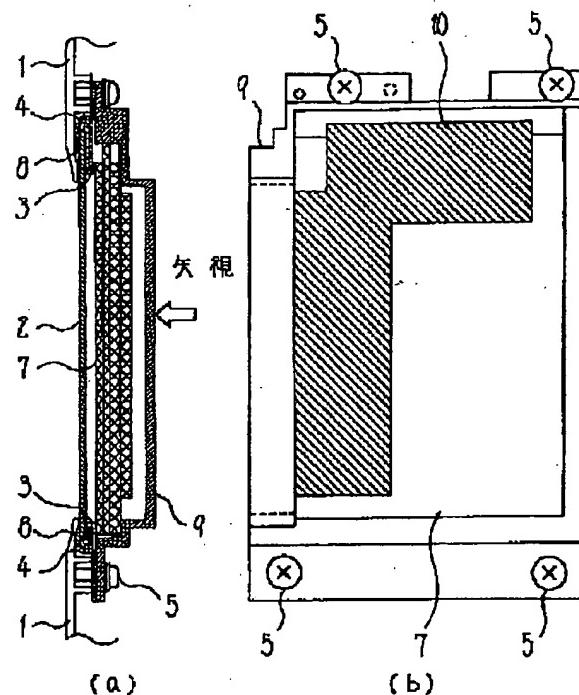
APPLICATION DATE : 28-01-97  
 APPLICATION NUMBER : 09014276

APPLICANT : NEC SHIZUOKA LTD;

INVENTOR : OSAWA TAKAHISA;

INT.CL. : G06F 3/033 G02F 1/1333 G09F 9/00  
 G09F 9/00 G09F 9/00

TITLE : METHOD FOR FIXING TOUCH PANEL  
 AND LCD OF PORTABLE ELECTRONIC  
 EQUIPMENT



**ABSTRACT :** PROBLEM TO BE SOLVED: To maintain the reliability of water proof/drip proof/dust proof in the surrounding of a touch panel, and to maintain maintenance by the easy exchanging work of the touch panel by applying an expensive TAB(tape automated bonding) type LCD(liquid crystal display) instead of an expensive heat seal type at the time of manufacturing a portable electronic equipment.

SOLUTION: A touch panel 2 is housed in a plate frame 4 such as metal whose rigidity is increased by improving a shape covered with a rubber frame 3 in the surrounding, and only the touch panel 2 is integrated in a case while a packing 8 provided in the surrounding of a case opening is pressed so as to be separated from an LCD 7. As a result, even in a state that the LCD 7 is not mounted, the packing 8 is already uniformly pressed in the whole periphery so that the water proof/drip proof/dust proof of an equipment in the surrounding of the touch panel 2 can be attained. Also, rigidity can be applied so that the touch panel 2 can be prevented from being falling in the case against a pressurizing force to the touch panel 2, and the reliability of the water proof/ drip proof/dust proof of the equipment can be further improved.

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